```
     gamma 2 domain (C is the constant region) in mediating   ***effector***
       ***functions***   in normal   ***IgG1***  .


=> s stabl? or stabil?
        203624 STABL?
        216738 STABIL?
L4      389500 STABL? OR STABIL?

=> s l4 and in vivo
        385748 VIVO
            80 VIVOS
        385828 IN VIVO
                 (VIVO OR VIVOS)
L5       24692 L4 AND IN VIVO

=> s l5 and igg1
         10968 IGG1
L6          59 L5 AND IGG1

=> d his

     (FILE 'HOME' ENTERED AT 14:39:53 ON 27 OCT 2005)

     FILE 'MEDLINE' ENTERED AT 14:40:09 ON 27 OCT 2005
L1           17 S HUMAN (5A) IGG1 (5A) FUNCTION?
L2        10968 S IGG1
L3           26 S L2 (20A) EFFECTOR FUNCTION
L4       389500 S STABL? OR STABIL?
L5        24692 S L4 AND IN VIVO
L6           59 S L5 AND IGG1

=> s l6 not l3
L7           57 L6 NOT L3

=> s igg1 (20a) (stabl? or stabil?) (20a) in vivo
         10968 IGG1
        203624 STABL?
        216738 STABIL?
        385748 VIVO
            80 VIVOS
        385828 IN VIVO
                 (VIVO OR VIVOS)
L8           2 IGG1 (20A) (STABL? OR STABIL?) (20A) IN VIVO

=> d bib ab 1-
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L8   ANSWER 1 OF 2     MEDLINE on STN
AN   2002491018     MEDLINE
DN   PubMed ID: 12353237
TI   Selective targeting of tumoral vasculature: comparison of different
     formats of an antibody (L19) to the ED-B domain of fibronectin.
AU   Borsi Laura; Balza Enrica; Bestagno Marco; Castellani Patrizia; Carnemolla
     Barbara; Biro Attila; Leprini Alessandra; Sepulveda Jorge; Burrone Oscar;
     Neri Dario; Zardi Luciano
CS   Laboratory of Cell Biology, Istituto Nazionale per la Ricerca sul Cancro,
     Genoa, Italy.
SO   International journal of cancer. Journal international du cancer, (2002
     Nov 1) 102 (1) 75-85.
     Journal code: 0042124. ISSN: 0020-7136.
CY   United States
DT   Journal; Article; (JOURNAL ARTICLE)
LA   English
FS   Priority Journals
EM   200211
ED   Entered STN: 20020928
     Last Updated on STN: 20021213
     Entered Medline: 20021107
AB   We recently demonstrated that a human recombinant scFv, L19, reacting with
     the ED-B domain of fibronectin, a marker of angiogenesis, selectively
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targets tumoral vasculature in vivo. Using the variable regions of L19, we constructed and expressed a human "small immunoprotein" (SIP) and a complete human ***IgG1*** and performed biodistribution studies in tumor-bearing mice to compare the blood clearance rate, in ***vivo*** ***stability*** and performance in tumor targeting of the 3 L19 formats [dimeric scFv (scFv)(2), SIP and ***IgG1***]. The accumulation of the different antibody formats in the tumors studied was a consequence of the clearance rate and in vivo stability of the molecules. Using the SIP, the %ID/g in tumors was 2-5 times higher than that of the (scFv)(2), reaching a maximum 4-6 hr after injection. By contrast, the accumulation of IgG1 in tumors constantly rose during the experiments. However, due to its slow clearance, the tumor-blood ratio of the %ID/g after 144 hr was only about 3 compared to a ratio of 10 for the (scFv)(2) and 70 for the SIP after the same period of time. The different in vivo behavior of these 3 completely human L19 formats could be exploited for different diagnostic and/or therapeutic purposes, depending on clinical needs and disease. Furthermore, the fact that ED-B is 100% homologous in human and mouse, which ensures that L19 reacts equally well with the human and the murine antigen, should expedite the transfer of these reagents to clinical trials.

L8 ANSWER 2 OF 2 MEDLINE on STN
AN 96366472 MEDLINE
DN PubMed ID: 8770649
TI A method for monoclonal antibody isotype switching: anti-CD60 VH expression in a heavy chain-deficient hybridoma variant.
AU Kozarsky K F; Li L L; Schaller J; Kaminski M S; Claflin J L; Fox D A
CS Department of Internal Medicine, University of Michigan, Ann Arbor 48109-0531, USA.
NC AR38477 (NIAMS)
P60 AR20557 (NIAMS)
SO Hybridoma, (1995 Dec) 14 (6) 597-601.
Journal code: 8202424. ISSN: 0272-457X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199609
ED Entered STN: 19961008
Last Updated on STN: 19961008
Entered Medline: 19960925
AB Alteration of monoclonal antibody isotype is desirable for a variety of purposes, including obtaining an improved reagent for investigative or therapeutic use. A variety of approaches for isotype switching, particularly from IgM to various IgG subclasses, have been described. Antibodies that recognize carbohydrate determinants on glycoproteins, glycolipids, or polysaccharides are generally of the IgM isotype. This includes all available antibodies to the human CD60 antigen, a determinant with cell coactivating properties described on a subset of T lymphocytes and on other cell types. In this report a new method for monoclonal antibody isotype switching is presented. A plasmid containing the VH regions of anti-CD60 linked to C gamma 1 was transfected into a spontaneously arising variant of the CD60 hybridoma that produced kappa light chain but no heavy chain. This transfected hybridoma line maintains ***stable*** production of useful quantities of ***IgG1*** monoclonal anti-CD60 in vitro and in ***vivo*** .

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FILE 'MEDLINE' ENTERED AT 14:40:09 ON 27 OCT 2005
L1 17 S HUMAN (5A) IGG1 (5A) FUNCTION?
L2 10968 S IGG1
L3 26 S L2 (20A) EFFECTOR FUNCTION
L4 389500 S STABL? OR STABIL?
L5 24692 S L4 AND IN VIVO
L6 59 S L5 AND IGG1
L7 57 S L6 NOT L3

L8 2 S IGG1 (20A) (STABL? OR STABIL?) (20A) IN VIVO

=> d bib ab l7 1-
YOU HAVE REQUESTED DATA FROM 57 ANSWERS - CONTINUE? Y/(N):y

L7 ANSWER 1 OF 57 MEDLINE on STN
AN 2005560257 IN-PROCESS
DN PubMed ID: 16237074
TI ES-62, an Immunomodulator Secreted by Filarial Nematodes, Suppresses Clonal Expansion and Modifies Effector Function of Heterologous Antigen-Specific T Cells In ***Vivo*** .
AU Marshall Fraser A; Grierson Angela M; Garside Paul; Harnett William; Harnett Margaret M
CS Division of Immunology, Infection and Inflammation, University of Glasgow, Glasgow, United Kingdom.
SO Journal of immunology (Baltimore, Md. : 1950), (2005 Nov 1) 175 (9) 5817-26.
Journal code: 2985117R. ISSN: 0022-1767.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Abridged Index Medicus Journals; Priority Journals
ED Entered STN: 20051021
Last Updated on STN: 20051021
AB ES-62 is a phosphorylcholine-containing glycoprotein secreted by filarial nematodes, which has previously been shown to possess a range of immunomodulatory capabilities. We now show, using a CD4(+) transgenic TCR T cell adoptive transfer system, that ES-62 can modulate heterologous Ag (OVA)-specific responses in ***vivo*** . Thus, in contrast to the mixed ***IgG1*** -IgG2a response observed in control animals, ES-62-treated mice exhibited a Th2-biased IgG Ab response as evidenced by ***stable*** enhancement of anti-OVA ***IgG1*** production and a profound inhibition of anti-OVA IgG2a. Consistent with this, Ag-specific IFN-gamma produced was suppressed by pre-exposure to ES-62 when T cells were rechallenged ex ***vivo*** . However, the response observed was not classical Th2, because although Ag-specific IL-5 production was enhanced by pre-exposure to ES-62, IL-13, and IL-4 were inhibited when T cells were rechallenged ex ***vivo*** . Moreover, such T cells produced lower levels of IL-2 and proliferated less upon Ag rechallenge ex ***vivo*** . Finally, pre-exposure to ES-62 inhibited the clonal expansion of the transferred Ag-specific CD4(+) T cells and altered the functional response of such T cells in ***vivo*** , by modulating the kinetics and reducing the extent of their migration into B cell follicles.

L7 ANSWER 2 OF 57 MEDLINE on STN
AN 2005557703 IN-PROCESS
DN PubMed ID: 16233398
TI Production of anti-prion scFv-Fc fusion proteins by recombinant animal cells.
AU Ono Ken-Ichiro; Kamihira Masamichi; Kuga Yuko; Matsumoto Hiroyuki; Hotta Akitsu; Itoh Toshinari; Nishijima Ken-Ichi; Nakamura Naoto; Matsuda Haruo; Iijima Shinji
CS Department of Biotechnology, Graduate School of Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8603, Japan.
SO J Biosci Bioeng, (2003) 95 (3) 231-8.
Journal code: 100888800. ISSN: 1389-1723.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED
ED Entered STN: 20051020
Last Updated on STN: 20051020
AB We constructed a replication-defective retroviral vector plasmid for the expression of a single-chain antibody fragment (scFv), derived from a chicken anti-human prion protein monoclonal antibody, fused with the Fc region of human ***IgG1*** . CHO-K1 and NS-1 cells were transformed with the viral vector pseudotyped with vesicular stomatitis virus G protein (VSV-G), and scFv-Fc producer clones were established. Among the established clones, CHO-2A9 cells produced a large amount of the product with an antibody-like dimerized structure in serum-free culture that